

OWNER'S GUIDE

OUTDOOR POWER EQUIPMENT
for all seasons

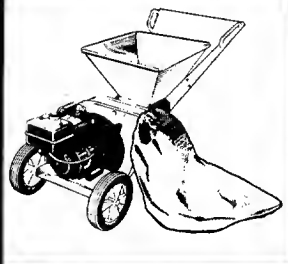
Spring



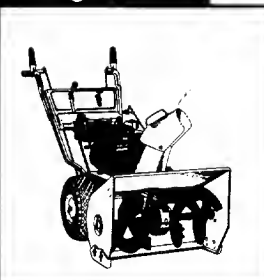
Summer



Fall



Winter



20" ROTARY MOWERS

Model Numbers

116-050-000

116-051-000

116-052-000

116-053-000

Important:
Read Safety Rules and
Instructions Carefully

Thank you for purchasing
an American-built product.

INDEX

Safe Operation Practices	3	Maintenance	10
Assembly	4	Off-Season Storage	11
Controls	8	Trouble Shooting Chart	13
Operation	8	Illustrated Parts	14
Adjustments	9	Repair Parts List	15
Lubrication	10	Parts Information	Back Cover



Instructions given with this symbol are for personal safety. Be sure to follow them.

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



WARNING

This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.



To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

TRAINING

1. Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
4. No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
5. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Do not wear loose fitting clothing that could get caught on the mower.
4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or while the engine is still hot. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
7. Never attempt to make a wheel or cutting height adjustment while the engine is running.
8. Mow only in daylight or in good artificial light.
9. Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause

serious personal injury. Keep a firm hold on the handle and walk, never run.

10. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.

OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
7. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
10. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
11. Never operate mower without proper guards, plates or other safety protective devices in place.

MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.

NOTE

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

NOTE

Reference to right or left hand side of the mower is observed from the operating position.

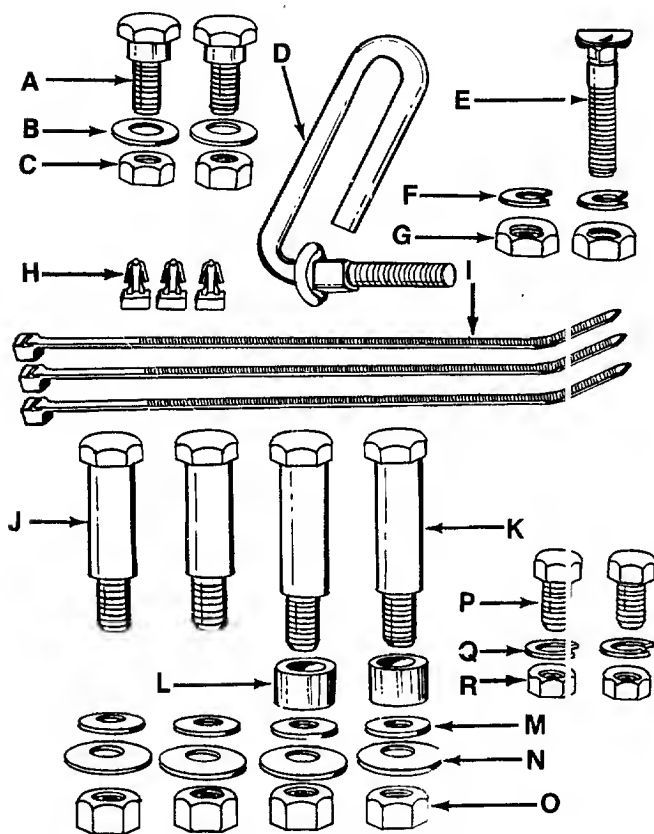


FIGURE 1.

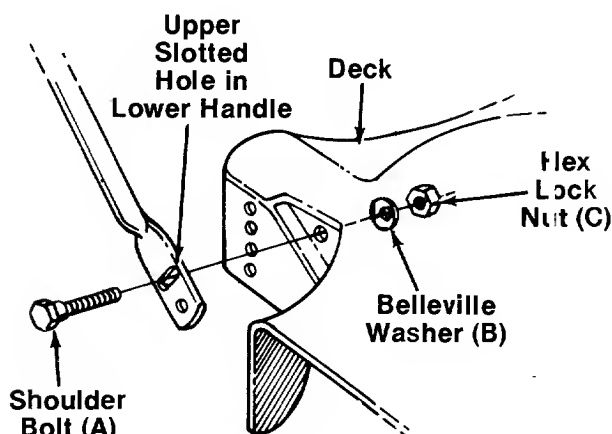


FIGURE 2.

ASSEMBLY INSTRUCTIONS

The instructions in this manual cover various models of mowers. Follow only those instructions which pertain to your unit.

CONTENTS OF HARDWARE PACK: (See figure 1) Hardware for Lower Handle Installation

- A (2) Shoulder Bolts
- B (2) Belleville Washers 5/16" I.D.
- C (2) Hex Lock Nuts 5/16-18 Thread

Hardware for Upper Handle Installation

- D (1) Rope Guide Bolt
- E (1) Curved Carriage Bolt
- F (2) Lock Washers 5/16" I.D.
- G (2) Hex Nuts 5/16-18 Thread
- H (3) Cable Anchors
- I (3) Cable Ties

Hardware for Installation of Wheels (If unassembled)

- J (2) Axle Bolts 2 1/4" Long
- K (2) Axle Bolts 2-5/8" Long
- L (2) Spacers
- M (4) Belleville Washers 3/8" I.D. x 7/8" O.D.
- N (4) Belleville Washers 3/8" I.D. x 1-1/8" O.D.
- O (4) Hex Nuts 3/8-16 Thread

Hardware for Installation of Chute Deflector (If unassembled)

- P (2) Hex Bolts 1/4-20 x 1/2" Long
- Q (2) Lock Washers 1/4" I.D.
- R (2) Hex Nuts 1/4-20 Thread

1. Remove lawn mower and loose parts from carton. Make certain all parts and literature have been removed from the carton before the carton is discarded.
2. Extend the control cables and place on the floor. Be careful not to bend or kink control cables.

HANDLE INSTALLATION

1. Line up the upper slotted hole in lower handle with the mounting hole on deck and the hole in the rear baffle (on the inside of the deck). Make certain the instruction label on the lower handle can be read from the operating position. Place shoulder bolt (A) through lower handle, deck and baffle. See figure 2. Place belleville washer (B) on the shoulder bolt, with the cupped side of the washer against the deck. Secure with hex lock nut (C).

NOTE

It may be necessary to bend the ends of the lower handle inward slightly to obtain a tight fit against the deck.

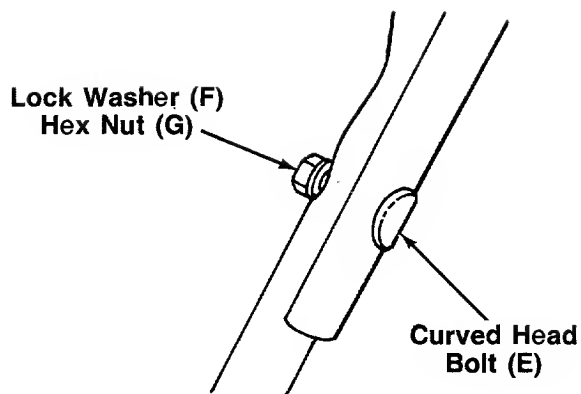


FIGURE 3.

2. Place the upper handle in position over the lower handle. The control bracket must be on the right hand side of the handle. Secure the left hand side of upper handle using the curved head bolt (E), lock washer (F) and hex nut (G) as shown in figure 3.



The right hand side of the handle will be secured with the rope guide bolt. However, left handed operators may assemble the rope guide bolt to the left side of the handle for easier starting.

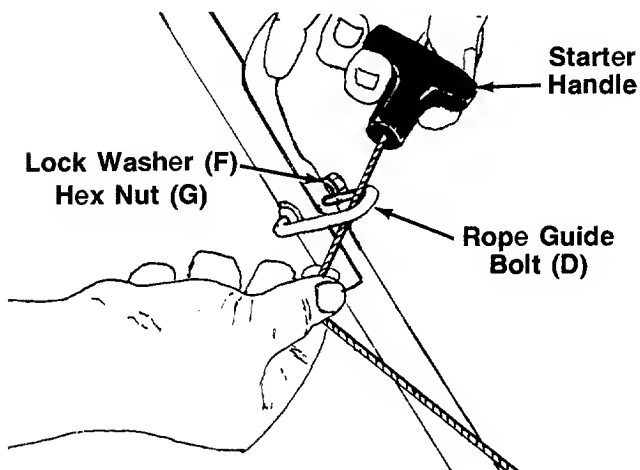


FIGURE 4.

3. Insert the rope guide bolt (D) through the right hand side of upper and lower handle. See figure 4. Secure the rope guide bolt with lock washer (F) and hex nut (G), finger tight only.

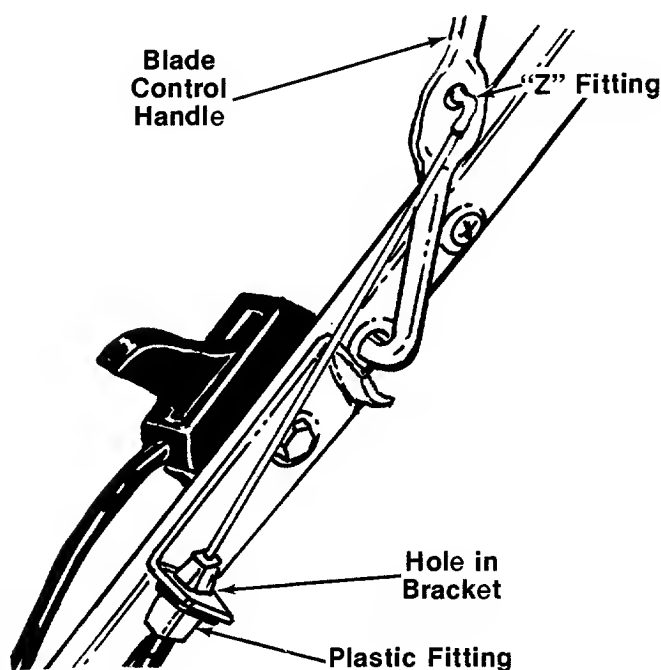


FIGURE 5.

4. Route the brake cable under the lower handle. Place the end of the brake cable into the hole in the bracket as shown in figure 5. Be careful not to bend or kink the cable. Snap the plastic fitting on the end of the cable into the hole in the bracket. Hook the "Z" end of the brake cable into the hole in the blade control handle. See figure 5.



Brake cable must be assembled as shown for proper blade brake operation.

5. The starter rope is wound around the starter handle. Maintain the tension on the rope as you unwind it.
6. Slip the starter rope into the rope guide bolt as shown in figure 4. If more slack is needed in the starter rope, disconnect and ground the spark plug wire. Depress the blade control handle and pull additional rope out from the engine.
7. Tighten hex nut on the rope guide bolt securely.

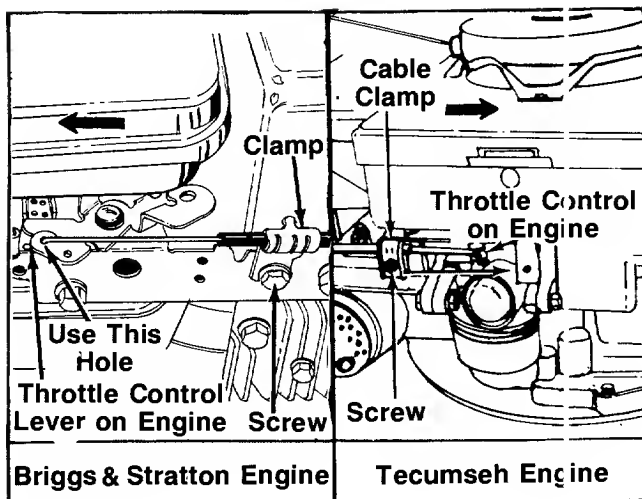


FIGURE 6.

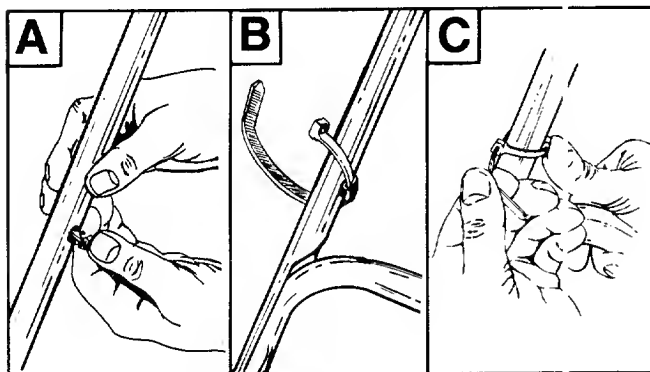


FIGURE 7.

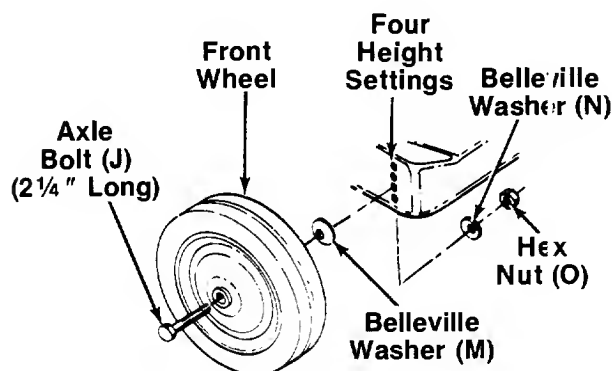


FIGURE 8.



NOTE

If the lowest cutting position (highest hole in the deck) is used, it is necessary to place the 1-1/8" washer on the outside of the deck and the 7/8" washer on the inside.

Steps 8 through 11 are for models which are equipped with remote throttle controls only.

8. Place the throttle control lever on the handle in FAST position.
9. Route the throttle control cable under the lower handle and inside the handle. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine. See figure 6.



NOTE

On Briggs and Stratton Engines, hook the throttle control cable into the **outside** hole.

10. Remove the screw on the cable clamp shown in figure 6. Slip the control casing under the clamp. Replace the screw, but do not tighten (cable must still move freely beneath the clamp).
11. Push the throttle control lever on the engine to the full open position (as far toward the **outside** of the unit as it will go on Briggs and Stratton engines and as far toward the **front** of the unit as it will go on Tecumseh engines) as shown in figure 6. Tighten the screw to secure the throttle control cable in this position.
12. Secure brake and throttle cables to the right side of the handle as follows.

A. Insert plastic cable anchors (D) into holes provided on the inside of the right handle, one on the upper handle and two on the lower handle. See figure 7A.

B. Slip cable ties (I) through cable anchors so the teeth in the cable tie will be against the handle (smooth side is away from the handle). See figure 7B.

C. Secure the cables with the cable ties. See figure 7C.

D. Cut off excess ends of cable ties.

INSTALLATION OF WHEELS

If the wheels on your mower are not already assembled, proceed as follows.

The four holes provide four cutting heights for your mower. Use the same hole location for all four wheels when assembling. If wheels are to be assembled in the lowest cutting position (highest hole in the deck), refer to the note below.

To assemble the front wheels: (See figure 8)

1. Place axle bolt (J) (2 1/4" long) through wheel.
2. Place one belleville washer 7/8" O.D. (M) on axle bolt, with the cupped side of washer toward the deck (away from wheel).
3. Secure wheel to deck with one belleville washer 1-1/8" O.D. (N) on the inside of the deck (cupped side against the deck) and hex nut (O).

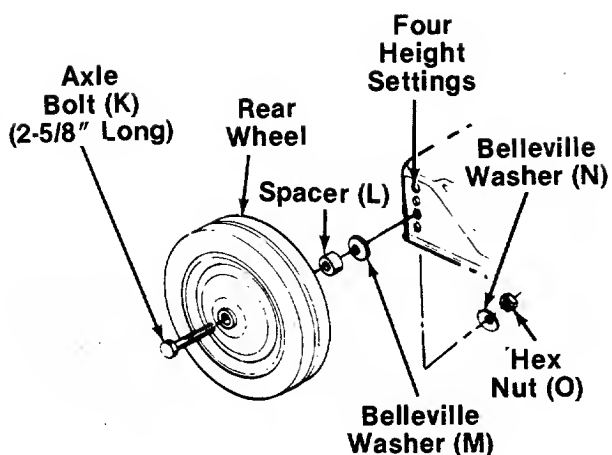


FIGURE 9.

← To assemble the rear wheels: (See figure 9)

1. Place axle bolt (K) (2-5/8" long) through rear wheel.
2. Place spacer (L) on axle bolt, next to wheel.
3. Place one belleville washer 7/8" O.D. (M) on axle bolt, with the cupped side of washer toward the deck (away from spacer).
4. Secure wheel to deck with one belleville washer 1-1/8" O.D. (N) on the inside of the deck (cupped side against the deck) and hex nut (O).

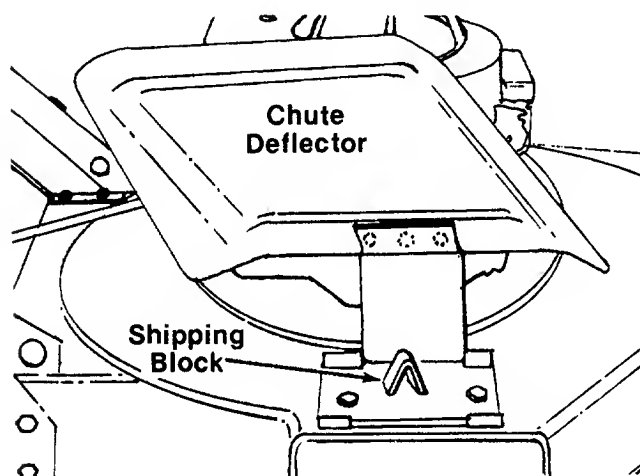


FIGURE 10.

CHUTE DEFLECTOR

Units With Deflector Assembled:

The chute deflector on your mower is in an upright position. It is held in that position by a shipping block. This block is used for shipping purposes only. It **must** be removed and discarded before the mower is put into operation. See figure 10.

← operation. See figure 10.

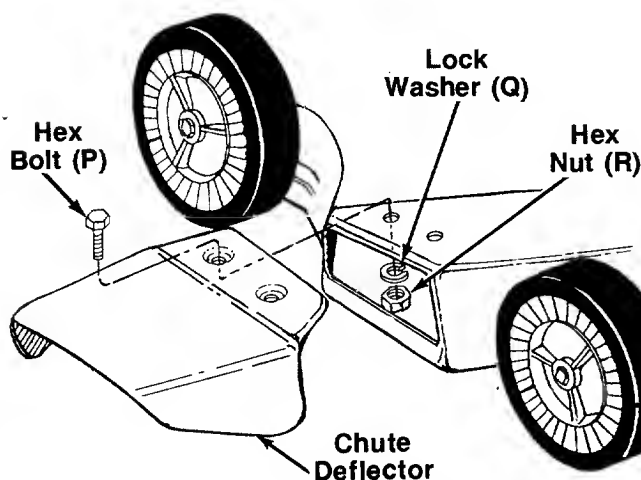


FIGURE 11.

Units With Deflector Shipped Loose:

The chute deflector provided is a safety device. **Do not operate the mower unless the chute deflector has been properly installed.**

Place the chute deflector in position on the deck. Secure with hex bolts (P), lock washers (Q) and hex nuts (R). See figure 11.

FINAL CHECK

Make certain **all** nuts and bolts are tightened securely.

CONTROLS

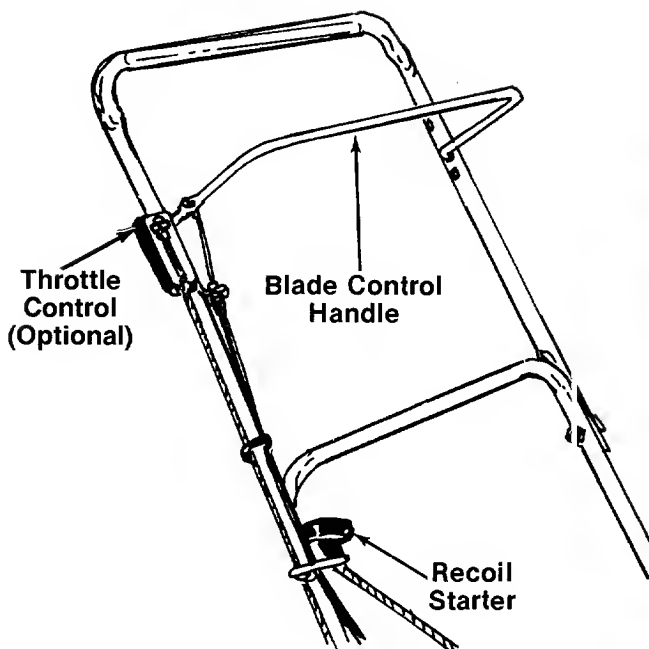


FIGURE 12.

BLADE CONTROL HANDLE

WARNING
THIS CONTROL MECHANISM IS A
SAFETY DEVICE NEVER ATTEMPT
TO BYPASS ITS OPERATIONS

The blade control handle is located on the upper handle of the mower. See figure 12. The blade control handle must be depressed in order to operate the unit. Release the blade control handle to stop the engine and blade.



WARNING

The blade will be rotating whenever the engine is running.

THROTTLE CONTROL (Optional)

The throttle control is located on the right side of the upper handle. It is used to regulate the engine speed. The engine should be started with the engine in the FAST or START position.



WARNING

The throttle control cannot be used to stop the engine.

RECOIL STARTER

The recoil starter handle is attached to the handle. See figure 12. Stand behind the unit in the operating position to start the unit.

OPERATION



FIGURE 13.

Keep hands and feet away from the chute area on cutting deck. See figure 13.



NOTE

If the wheels on your unit were assembled at the factory, they are set in a low cutting height position for shipping purposes. For best results, raise the cutting position until it is determined which height is best for your lawn. See cutting height adjustment.

BEFORE STARTING

1. Service engine with oil and gasoline as instructed in the separate engine manual packed with your unit. Read the instructions carefully.
2. Attach spark plug wire to spark plug.

TO START ENGINE AND ENGAGE BLADE

1. Move the throttle control lever (optional) to FAST or START position.
2. **Tecumseh Engines Only:** Prime engine as instructed in the separate engine manual.

3. Standing behind the unit, depress the blade control handle and hold it against the upper handle as shown in figure 14.
4. Grasp the recoil starter handle as shown and pull up rapidly. Return it slowly to the rope guide bolt.
5. After engine starts, move throttle control lever to desired engine speed if unit is so equipped.

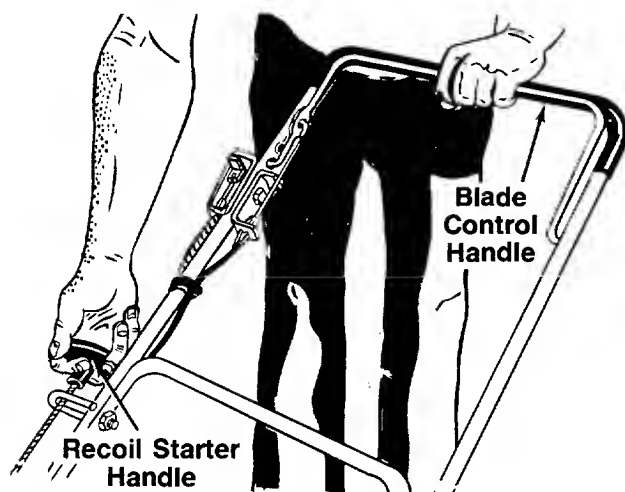


FIGURE 14.

TO STOP ENGINE AND BLADE

1. Release the blade control handle to stop the engine and blade.



The blade continues to rotate for a few seconds after the engine is shut off.

2. Disconnect the spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

USING YOUR ROTARY MOWER

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator and others.

For best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.



If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

ADJUSTMENTS



Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

CUTTING HEIGHT ADJUSTMENT

Adjustment may be made by removing and moving axle bolts to desired position. Cutting heights will be raised as axle bolts are moved to a lower hole and lowered as axle bolts are moved to a higher hole in the deck. All axle bolts must be mounted in the same relative position. Belleville washers must be assembled so that the cupped side of the washers are against the deck. The spacers must be assembled between the rear wheels and the belleville washers. Refer to figures 8 and 9.

THROTTLE (Optional)

The throttle control wire assembly can be adjusted if necessary. Refer to steps 8 through 11 of the assembly instructions.

CARBURETOR ADJUSTMENTS



WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.

Refer to the separate engine manual packed with your mower for carburetor adjustment information.

LUBRICATION



WARNING

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Blade Control—Lubricate the pivot points on the blade control handle and the brake cable at least once a season with light oil. See figure 15. The blade control must operate freely in both directions.

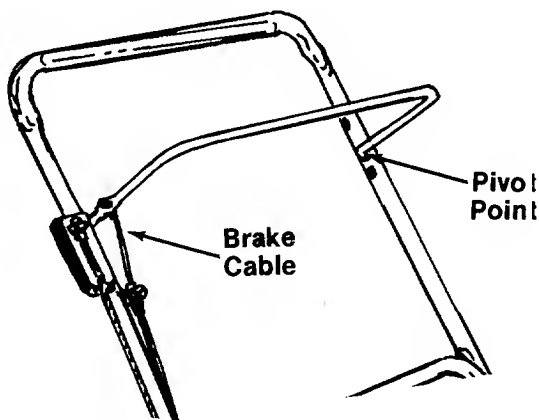


FIGURE 15.

Chute Deflector—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Deflector must work freely.

Wheels—The wheels require no lubrication. However, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

Engine—Follow engine manual for lubrication instructions.

Throttle (Optional)—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

MAINTENANCE



NOTE

When tipping the unit, empty the fuel tank and keep engine spark plug side up.

CUTTING BLADE

A. Removal for Sharpening or Replacement



WARNING

Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blade.

Remove the large bolt and lock washer which holds the blade and adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.



CAUTION

Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

It is recommended that the blade always be removed from the adapter for the best test of balance. The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.

5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, **all** nuts and bolts must be checked periodically for correct tightness.

DECK

The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.



NOTE

Do not direct the stream of water at a hot engine as damage to the engine may result.

ENGINE

Refer to the separate engine manual for engine maintenance instructions.

AIR CLEANER

Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced.

To service the air cleaner, refer to the separate engine manual packed with your unit.

SPARK PLUG

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Store mower in a dry, clean area.



NOTE

When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rust-proof the equipment. Using a light oil or silicone, coat the equipment, especially cables and all moving parts.



NOTE

The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.

Grass catcher Model 065 is available as optional equipment for units with moveable deflectors.



WARNING

1. DO NOT operate the mower without the entire grass catcher or chute deflector in place.
2. DO NOT operate the mower without the protective shield on the rear of the deck in place.



NOTE

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0217.

Trouble Shooting Chart

Problem	Cause	Remedy
1 Engine fails to start	A Blade control handle disengaged B Check fuel tank for gas C Spark plug lead wire disconnected D Throttle control lever not in the starting position E Faulty spark plug F Carburetor improperly adjusted, engine flooded G Old stale gasoline H Engine brake engaged	A Engage blade control handle. B Fill tank if empty. C Connect lead wire. D Move throttle lever to start position. E Spark should jump gap between control electrode and side electrode. If spark does not jump, replace the spark plug. F Remove spark plug, dry the plug, crank engine with plug removed, and throttle in off position. Replace spark plug and lead wire and resume starting procedures. G Drain and refill with fresh gasoline. H Follow starting procedure.
2 Hard starting or loss of power	A Spark plug wire loose B Carburetor improperly adjusted C Dirty air cleaner	A Connect and tighten spark plug wire. B Adjust carburetor. See separate engine manual. C Clean air cleaner as described in separate engine manual.
3 Operation erratic	A Dirt in gas tank B Dirty air cleaner C Water in fuel supply D Vent in gas cap plugged E Carburetor improperly adjusted	A Remove the dirt and fill tank with fresh gas. B Clean air cleaner as described in separate engine manual. C Drain contaminated fuel and fill tank with fresh gas. D Clear vent or replace gas cap. E Adjust carburetor. See separate engine manual.
4 Occasional skip (hesitates) at high speed	A Carburetor idle speed too slow B Spark plug gap too close C Carburetor idle mixture adjustment improperly set	A Adjust carburetor. See separate engine manual. B Adjust to .030". C Adjust carburetor. See separate engine manual.
5 Idles poorly	A Spark plug fouled, faulty, or gap too wide B Carburetor improperly adjusted C Dirty air cleaner	A Reset gap to .030" or replace spark plug. B Adjust carburetor. See separate engine manual. C Clean air cleaner as described in separate engine manual.
6 Engine overheats	A Carburetor not adjusted properly B Air flow restricted C Engine oil level low	A Adjust carburetor. See separate engine manual. B Remove blower housing and clean as described in separate engine manual. C Fill crankcase with the proper oil.
7 Excessive vibration	A Cutting blade loose or unbalanced B Bent cutting blade	A Tighten blade and adapter. Balance blade. B Replace blade.

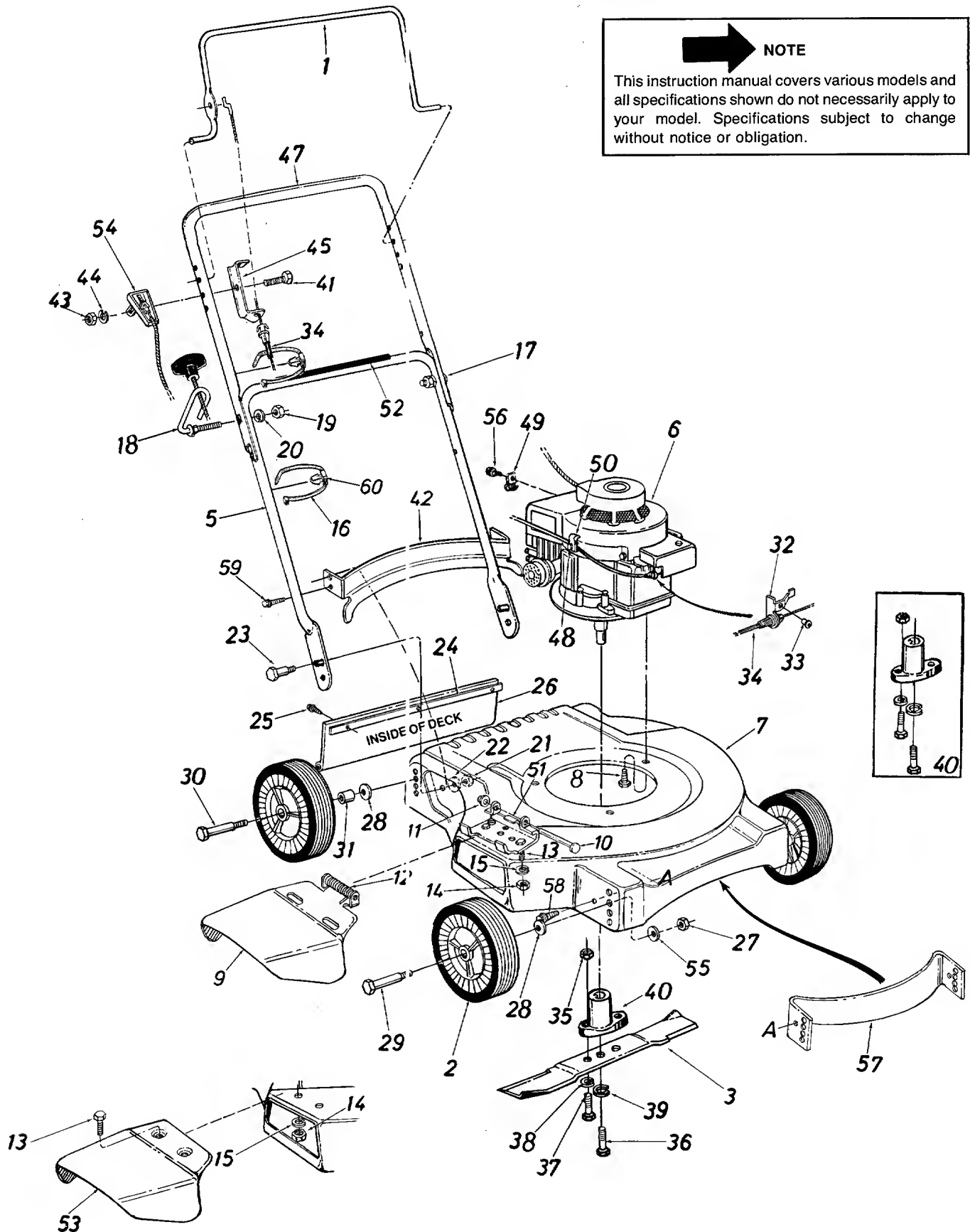
Note: For repairs beyond the minor adjustments listed above, contact your local authorized service dealer.

Models 050, 051, 052 and 053



NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.



Models 050, 051, 052 and 053

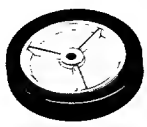
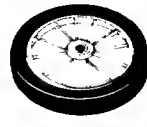
PARTS LIST FOR MODELS 050, 051, 052 and 053 ROTARY MOWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	747-0500		Control Handle	N	33	728-0171		Pop Rivet .156" Dia. x .379"	
2	**		Plastic Wheel Ass'y.		34	746-0551		Control Cable—43.0" Lg.	
3	742-0123		20" Blade		35	712-0123		Hex Nut 5/16-24 Thd.*	
5	749-0373		Lower Handle (Chrome)		36	710-0152		Hex Bolt 3/8-24 x 1.00" Lg. (Grade 5)	
	749-0372		Lower Handle (Painted)					Hex Bolt 5/16-24 x 1.00" Lg. (Grade 5)	
6	—		Engine		37	710-0888		L-Wash. 5/16" I.D.*	
7	16202	462	20" Deck	N	38	736-0119		L-Wash. 3/8" I.D. Heavy Duty	
	16393	462	20" Deck (Used w/Ref. No. 57)	N	39	736-0217		Blade Adapter Kit	
8	710-0654		Hex Wash. Hd. TT-Tap Scr. 3/8-16 x 1.00" Lg.		40	753-0343		Hex Bolt 1/4-28 x 1.75" Lg.*	N
9	14944		Chute Deflector Ass'y.		41	710-0559		Rear Baffle†	
10	711-0555		Pivot Pin		42	16414		Hex Nut 1/4-28 Thd.	
11	726-0106		Cap Speed Nut 1/4" Rod		43	712-0138		L-Wash. 1/4" I.D.	
12	732-0253		Torsion Spring		44	736-0175		Cable Mounting Brkt.	
13	710-0289		Hex Bolt 1/4-20 x .50" Lg.*		45	16201		Upper Handle (Chrome)	
14	712-0287		Hex Nut 1/4-20 Thd.*		47	749-0536		Upper Handle (Painted)	
15	736-0329		L-Wash. 1/4" I.D.*			749-0538		Hex B-Tap Scr. #10 x .38" Lg.†	
16	725-0157		Cable Tie		48	710-0429		Casing Clamp†	
17	710-0671		Curved Carriage Bolt 5/16-18 x 1.38" Lg.		49	751-0369		Casing Clamp†	
18	710-0842		Rope Guide Bolt		50	12894		Hinge Plate	
19	712-0267		Hex Nut 5/16-18 Thd.*		51	11130		Instruction Label—Handle	N
20	736-0119		L-Wash. 5/16" I.D.*		52	777-5773		Chute Deflector†	
21	712-0429		Hex Ins. L-Nut 5/16-18 Thd.		53	16203		Throttle Control Ass'y. Comp.—B&S†	N
22	736-0242		Bell-Wash. .345" I.D. x .88" O.D.		54	746-0644		Throttle Control Ass'y. Comp. (Tec.)†	
23	738-0140		Shld. Bolt .437" Dia. x .180" Lg.			746-0645		Bell-Wash. .39" I.D. x 1.13" O.D.	
24	14836		Retainer Strip		55	736-0331		Hex AB-Tap Scr. #8 x .38" Lg.†	
25	710-0776		Hex Wash. Hd. Self-Tap Scr. 1/4" x .62" Lg.		56	710-0227		Baffle†	
26	731-0670		Rear Flap Ass'y.		57	16328		Hex B-Tap Screw 1/4 x .38" Lg.†	
27	712-0798		Hex Nut 3/8-16 Thd.*		58	710-0352		Hex Tap Screw #10 x .50" Lg.†	
28	736-0105		Bell-Wash. .400" I.D. x .88" O.D.		59	710-0351		Cable Anchor	N
29	738-0213		Shld. Bolt (Front Axle)		60	726-0241			
30	738-0509		Shld. Bolt (Rear Axle)						
31	750-0515		Spacer						
32	14924		Cable Bracket†						

†Optional Parts

*For faster service obtain standard nuts, bolts, and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

**Wheel Assembly

		
7"	734-0840	734-1176
8"	734-0841	734-1177

If color or finish is important when ordering parts, use the appropriate color code shown below [i.e. (part no.)-462 for Red Flake Finish].

Color Codes

312—White	463—Topflite Red
436—Radiant Yellow	480—Brilliant Green
452—Black	483—Charcoal Grey
456—Radiant Tangerine	499—Beige
462—Red Flake	623—Silver Mist

NOTE: The engine is not under warranty by the mower manufacturer... If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."



PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	BIRMINGHAM
Auto Electric & Carburetor Co.	2625 4th Ave. S. 5233
ARKANSAS	NORTH LITTLE ROCK
Sutton's Lawn Mower Shop	5301 Roundtop Drive Box 368, Rt. 4 72117
CALIFORNIA	PORTERVILLE
Billious	75 North D Street 3257
COLORADO	DENVER
Spitzer Industrial Products Co.	6601 N. Washington St. 0229
FLORIDA	JACKSONVILLE
Radco Distributors	4909 Victor St. Box 5459 32207
	HIALEAH
Small Eng. Dist.	7995 W. 26th Court 33016
GEORGIA	EAST POINT
East Point Cycle & Key Inc.	2834 Church St. 30344
ILLINOIS	LYONS
Keen Edge Co.	8615 Ogden Ave. 60534
INDIANA	ELKHART
Parts & Sales Inc.	2101 Industrial Pkwy. 43516
IOWA	DUBUQUE
Power Lawn & Garden Equip.	2551 J.F. Kennedy 52001
LOUISIANA	NEW ORLEANS
Suhren Engine Co.	8330 Earhart Blvd. 70118
MARYLAND	TAKOMA PARK
Center Supply Co.	6867 New Hampshire Ave. 20912
MASSACHUSETTS	SPRINGFIELD
Morton B. Collins Co.	300 Birnie Ave. 01107
MICHIGAN	LANSING
Lorenz Service Co.	2500 S. Pennsylvania 43910
	MOUNT CLEMENS
Power Equipment Dist.	340 Hubbard 43043
MINNESOTA	HOPKINS
Hance Distributing Inc.	420 Excelsior Ave. W. 55343
MISSOURI	KANSAS CITY
Automotive Equip. Service	3117 Holmes St. 64109
	ST. JOSEPH
Ross-Frazier Supply Co.	8th and Monterey 64503
	ST. LOUIS
Henzler, Inc.	2015 Lemay Ferry Rd. 63125
NEW JERSEY	BELLMAWR
Lawnmower Parts Inc.	717 Creek Rd. 08030
NEW MEXICO	ALBUQUERQUE
Spitzer Eng. & Parts Co.	1023 Third Ave. N.W. 87103
NEW YORK	CARTHAGE
Gamble Dist., Inc.	West End Ave. 13619

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NORTH CAROLINA	GOLDSBORO
Smith Hardware Co.	515 N. George St. 27530
	GREENSBORO
Dixie Sales Company	335 N. Green 27402
OHIO	CARROLL
Stebe's Mid-State Mower Supply .	Box 366, 71 High St. 43112
	CLEVELAND
Bleckrie, Inc.	7900 Lorain Ave. 44102
	WADSWORTH
National Central	687 Seville Rd. 44281
	YOUNGSTOWN
Burton Supply Co.	1301 Logan Ave. Box 929 44501
OKLAHOMA	MUSKOGEE
Victory Motors, Inc.	605 S. Cherokee 74401
OREGON	PORTLAND
Kenton Supply Co.	8216 N. Denver Ave. 97217
PENNSYLVANIA	HARRISBURG
EEOC Inc.	4021 N. 6th St. 17110
	WILLOW GROVE
Thompson Rubber Co.	850 Davisville Rd. 19090
	PITTSBURGH
Bluemont Co.	11125 Frankstown Rd. 15235
	PUNXSUTAWNEY
Frank Roberts & Sons	R.D. 2 15767
	SCRANTON
Scranton Auto Ignition Co.	1133-35 Wyoming Ave. 18509
TENNESSEE	KNOXVILLE
Ace Distributors	2103 Magnolia 37919
	MEMPHIS
American Sales & Service, Inc. .	3035-43 Bellbrook 38116
TEXAS	DALLAS
Marr Brothers, Inc.	423 E. Jefferson 75203
	FORT WORTH
Woodson Sales Corp.	6733 Baker Blvd. Hwy. 10 76118
	HOUSTON
Bullard Supply Co.	2409 Commerce St. 77003
	SAN ANTONIO
Engine House Inc.	8610 Botts Lane P.O. Box 17867 78217
UTAH	SALT LAKE CITY
Powered Products	1661 N. Beck St. 84116
VIRGINIA	ASHLAND
RBI Corp.	101 Cedar Ridge Dr. 23005
WASHINGTON	SEATTLE
Equip. Northwest	1410 14th Ave. 98122
WISCONSIN	MILWAUKEE
Wisconsin Magneto Inc.	4727 N. Teutonia St. 53209

WARRANTY PARTS AND SERVICE POLICY

(0685)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.